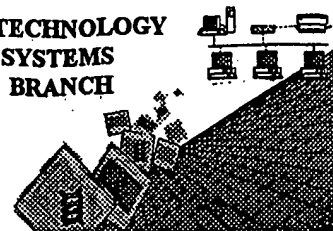


BIOTECHNOLOGY  
SYSTEMS  
BRANCH



## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/067,832C  
Source: OIPE  
Date Processed by STIC: 7/1/04

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

**FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:**

**<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

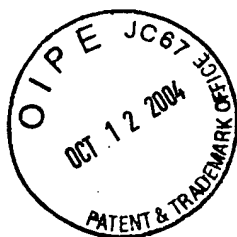
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>) , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):  
U.S. Patent and Trademark Office, 220 20<sup>th</sup> Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, 1 Room 1B03, Arlington, VA 22202

Revised 05/17/04

**BEST AVAILABLE COPY**



OIP

## RAW SEQUENCE LISTING

DATE: 07/01/2004

PATENT APPLICATION: US/10/067,832C

TIME: 13:01:51

Input Set : A:\PTO.LM.txt

Output Set: N:\CRF4\07012004\J067832C.raw

5 <110> APPLICANT: COLLIER, G  
 7 ZIMMET, P Z  
 11 <120> TITLE OF INVENTION: A NOVEL GENE AND USES THEREFOR  
 15 <130> FILE REFERENCE: ejh/af  
 C--> 19 <140> CURRENT APPLICATION NUMBER: US/10/067,832C  
 C--> 21 <141> CURRENT FILING DATE: 2002-06-03  
 25 <150> PRIOR APPLICATION NUMBER: PP0117  
 27 <151> PRIOR FILING DATE: 1997-10-31  
 31 <150> PRIOR APPLICATION NUMBER: PP0323  
 33 <151> PRIOR FILING DATE: 1997-11-11  
 37 <160> NUMBER OF SEQ ID NOS: 14  
 41 <170> SOFTWARE: PatentIn Ver. 2.0  
 45 <210> SEQ ID NO: 1  
 47 <211> LENGTH: 342  
 49 <212> TYPE: DNA  
 51 <213> ORGANISM: Psammomys obesus  
 55 <220> FEATURE:  
 57 <221> NAME/KEY: CDS  
 59 <222> LOCATION: (29)..(247)  
 63 <400> SEQUENCE: 1  
 65 gttccaggag attacagctc cagccaca atg att gag gtg gtt tgc aac gac 52  
 67 Met Ile Glu Val Val Cys Asn Asp  
 69 1 5  
 73 cgt cta gga aag aaa gtc cgc gtt aag tgc aac acc gat gac acc atc 100  
 75 Arg Leu Gly Lys Lys Val Arg Val Lys Cys Asn Thr Asp Asp Thr Ile  
 77 10 15 20  
 80 ggg gac ttg aag aaa ctg ata gcg gcc caa act ggc act cgt tgg aat 148  
 82 Gly Asp Leu Lys Lys Leu Ile Ala Ala Gln Thr Gly Thr Arg Trp Asn  
 84 25 30 35 40  
 88 aag atc gtt ctt aaa aag tgg tac acg att ttt aag gac cat gta tct 196  
 90 Lys Ile Val Leu Lys Lys Trp Tyr Thr Ile Phe Lys Asp His Val Ser  
 92 45 50 55  
 96 ctg gga gat tat gaa atc cac gat ggg atg aac ctg gag ctt tat tac 244  
 98 Leu Gly Asp Tyr Glu Ile His Asp Gly Met Asn Leu Glu Leu Tyr Tyr  
 100 60 65 70  
 104 cag tagaggggaa ttctctcacc ttgcccaacc ttgcttttct ctcccatggc 297  
 106 Gln  
 110 tcatttaaca ctgttgtaga tgctcatttt tttgttaagt gtact 342  
 116 <210> SEQ ID NO: 2  
 118 <211> LENGTH: 73  
 120 <212> TYPE: PRT  
 122 <213> ORGANISM: Psammomys obesus  
 126 <400> SEQUENCE: 2

Does Not Comply  
Corrected Diskette Needed

pp 4-5

## RAW SEQUENCE LISTING

DATE: 07/01/2004

PATENT APPLICATION: US/10/067,832C

TIME: 13:01:51

Input Set : A:\PTO.LM.txt

Output Set: N:\CRF4\07012004\J067832C.raw

```

128 Met Ile Glu Val Val Cys Asn Asp Arg Leu Gly Lys Lys Val Arg Val
130   1           5           10           15
134 Lys Cys Asn Thr Asp Asp Thr Ile Gly Asp Leu Lys Lys Leu Ile Ala
136           20           25           30
140 Ala Gln Thr Gly Thr Arg Trp Asn Lys Ile Val Leu Lys Lys Trp Tyr
142           35           40           45
146 Thr Ile Phe Lys Asp His Val Ser Leu Gly Asp Tyr Glu Ile His Asp
148           50           55           60
152 Gly Met Asn Leu Glu Leu Tyr Tyr Gln
154   65           70
159 <210> SEQ ID NO: 3
161 <211> LENGTH: 391
163 <212> TYPE: DNA
165 <213> ORGANISM: Artificial Sequence
169 <220> FEATURE:
171 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
175 <400> SEQUENCE: 3
177 atgttcaaca cagcagccat ccaaggctcct ctaatgtcga ggtcgggtgtt actaactcca 60
181 ccaaacgttg ctggcagatc ctttctttca ggcgcaattc acgttgtggc tactgtggta 120
185 gccctgaac ttctttgact atcgccgggt ttgaccgtga gcaaccttat tctagcaaga 180
189 atttttcacc atgtgctaaa aattcctggg acatagagac cctctaatac tttaggtgct 240
193 accctacttg gacctcgaaa taatgggtcat ctccccttaa ggaggtggaa cgggttggaa 300
197 cgaaaggaga ggggtaccgag taaattgtga caacatctac gagtaaaaaa acaattcaca 360
201 tgaataaaaa ctttgatgct gcaaaaaaaaa a 391.
207 <210> SEQ ID NO: 4
209 <211> LENGTH: 16
211 <212> TYPE: DNA
213 <213> ORGANISM: Artificial Sequence
217 <220> FEATURE:
219 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
223 <400> SEQUENCE: 4
225 aagctttttt tttttg 16
231 <210> SEQ ID NO: 5
232 <211> LENGTH: 13
234 <212> TYPE: DNA
236 <213> ORGANISM: Artificial Sequence
240 <220> FEATURE:
242 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
246 <400> SEQUENCE: 5
248 aagcttcggg taa 13
254 <210> SEQ ID NO: 6
256 <211> LENGTH: 20
258 <212> TYPE: DNA
260 <213> ORGANISM: Artificial Sequence
264 <220> FEATURE:
266 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
270 <400> SEQUENCE: 6
272 agtccgcgtt aagtgaaca 20
278 <210> SEQ ID NO: 7

```

## RAW SEQUENCE LISTING

DATE: 07/01/2004

PATENT APPLICATION: US/10/067,832C

TIME: 13:01:51

Input Set : A:\PTO.LM.txt

Output Set: N:\CRF4\07012004\J067832C.raw

280 <211> LENGTH: 20  
282 <212> TYPE: DNA  
284 <213> ORGANISM: Artificial Sequence  
288 <220> FEATURE:  
290 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic  
294 <400> SEQUENCE: 7  
296 ctccaggttc atcccatcgt 20  
302 <210> SEQ ID NO: 8  
304 <211> LENGTH: 20  
306 <212> TYPE: DNA  
308 <213> ORGANISM: Artificial Sequence  
311 <220> FEATURE:  
313 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic  
317 <400> SEQUENCE: 8  
319 ggctacagct tcaccaccac 20  
325 <210> SEQ ID NO: 9  
327 <211> LENGTH: 20  
329 <212> TYPE: DNA  
331 <213> ORGANISM: Artificial Sequence  
335 <220> FEATURE:  
337 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic  
341 <400> SEQUENCE: 9  
343 gcttgctgat ccacatctgc 20  
349 <210> SEQ ID NO: 10  
351 <211> LENGTH: 30  
353 <212> TYPE: DNA  
355 <213> ORGANISM: Artificial Sequence  
359 <220> FEATURE:  
361 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic  
365 <400> SEQUENCE: 10  
367 tggtaataaa gctccaggtt catcccatcg 30  
373 <210> SEQ ID NO: 11  
375 <211> LENGTH: 20  
377 <212> TYPE: DNA  
379 <213> ORGANISM: Artificial Sequence  
383 <220> FEATURE:  
385 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic  
388 <400> SEQUENCE: 11  
390 caaactggca ctggttgaa 20  
396 <210> SEQ ID NO: 12  
398 <211> LENGTH: 19  
400 <212> TYPE: DNA  
402 <213> ORGANISM: Artificial Sequence  
406 <220> FEATURE:  
408 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic  
412 <400> SEQUENCE: 12  
414 gttgggcaag gtggaggaa 19  
420 <210> SEQ ID NO: 13  
422 <211> LENGTH: 102

## RAW SEQUENCE LISTING

DATE: 07/01/2004

PATENT APPLICATION: US/10/067,832C

TIME: 13:01:51

Input Set : A:\PTO.LM.txt

Output Set: N:\CRF4\07012004\J067832C.raw

424 <212> TYPE: DNA  
 426 <213> ORGANISM: Homo sapiens  
 430 <220> FEATURE:  
 432 <221> NAME/KEY: CDS  
 434 <222> LOCATION: (1)..(99)  
 438 <400> SEQUENCE: 13  
 W--> 440 atg atc gag gtt gtt tgc aac gac cgt ctg ggg aaa aag gtc cgt gtt 48  
 W--> 442 Met Ile Glu Val Val Cys Asn Asp Arg Leu Gly Lys Lys Val Xaa Val  
 444 1 5 10 15  
 448 aaa tgc aac acg gat gat acc atc ggg gac ctt aag aag ctg att gca 96  
 450 Lys Cys Asn Thr Asp Asp Thr Ile Gly Asp Leu Lys Lys Leu Ile Ala  
 452 20 25 30  
 456 gcc taa 102  
 458 Ala  
 463 <210> SEQ ID NO: 14  
 465 <211> LENGTH: 33  
 467 <212> TYPE: PRT  
 469 <213> ORGANISM: Homo sapiens  
 471 <220> FEATURE:  
 W--> 473 <221> NAME/KEY: misc. feature  
 475 <222> LOCATION: (15) . . . (15)  
 477 <223> OTHER INFORMATION: Xaa is any amino acid  
 480 <400> SEQUENCE: 14  
 W--> 482 Met Ile Glu Val Val Cys Asn Asp Arg Leu Gly Lys Lys Val Xaa Val  
 484 1 5 10 15  
 488 Lys Cys Asn Thr Asp Asp Thr Ile Gly Asp Leu Lys Lys Leu Ile Ala  
 490 20 25 30  
 494 Ala

*needs explanation -*  
*see p. 5*

RAW SEQUENCE LISTING ERROR SUMMARY  
 PATENT APPLICATION: US/10/067,832C

DATE: 07/01/2004  
 TIME: 13:01:52

Input Set : A:\PTO.LM.txt  
 Output Set: N:\CRF4\07012004\J067832C.raw

*error explanation*  
**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:13; N Pos. 44  
 Seq#:13; Xaa Pos. 15  
 Seq#:14; Xaa Pos. 15

**Invalid Line Length:**

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41  
 Seq#:1; Line(s) 43,45,47,49,51,53,55,57,59,61,63,65,67,69,71,73,75,77,78,80  
 Seq#:1; Line(s) 82,84,86,88,90,92,94,96,98,100,102,104,106,108,110,112,114  
 Seq#:1; Line(s) 116  
 Seq#:2; Line(s) 118,120,122,124,126,128,130,132,134,136,138,140,142,144,146  
 Seq#:2; Line(s) 148,150,152,154,155,157,159  
 Seq#:3; Line(s) 161,163,165,167,169,171,173,175,177,179,181,183,185,187,189  
 Seq#:3; Line(s) 191,193,195,197,199,201,203,205,207  
 Seq#:4; Line(s) 209,211,213,215,217,219,221,223,225,227,229,231  
 Seq#:5; Line(s) 232,234,236,238,240,242,244,246,248,250,252,254  
 Seq#:6; Line(s) 256,258,260,262,264,266,268,270,272,274,276,278  
 Seq#:7; Line(s) 280,282,284,286,288,290,292,294,296,298,300,302  
 Seq#:8; Line(s) 304,306,308,309,311,313,315,317,319,321,323,325  
 Seq#:9; Line(s) 327,329,331,333,335,337,339,341,343,345,347,349  
 Seq#:10; Line(s) 351,353,355,357,359,361,363,365,367,369,371,373  
 Seq#:11; Line(s) 375,377,379,381,383,385,386,388,390,392,394,396  
 Seq#:12; Line(s) 398,400,402,404,406,408,410,412,414,416,418,420  
 Seq#:13; Line(s) 422,424,426,428,430,432,434,436,438,440,442,444,446,448  
 Seq#:13; Line(s) 450,452,454,456,458,460,462,463  
 Seq#:14; Line(s) 465,467,477,480,482,484,486,488,490,492,494,496,498,500  
 Seq#:14; Line(s) 502

**VERIFICATION SUMMARY**

DATE: 07/01/2004

PATENT APPLICATION: US/10/067,832C

TIME: 13:01:52

Input Set : A:\PTO.LM.txt

Output Set: N:\CRF4\07012004\J067832C.raw

L:19 M:270 C: Current Application Number differs, Replaced Application Number  
L:21 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:440 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:13  
L:440 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0  
L:442 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:48  
L:473 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:14  
L:482 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0